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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

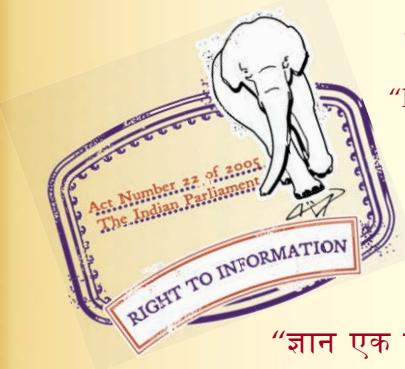
“Step Out From the Old to the New”

IS 4292 (1984): Strap Clamps [PGD 2: Machine Tool Elements and Holding Devices]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

Invent a New India Using Knowledge



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard*

SPECIFICATION FOR STRAP CLAMPS

(First Revision)

1. Scope — Specifies the dimensions and material for two types of strap clamps used to hold work-pieces in place when they are being machined.

2. Types

Type A — Strap clamp, slotted; and

Type B — Strap clamp, plain.

3. Dimensions

3.1 Dimensions for Strap Clamps — Type A and Type B shall be as given in Table 1.

4. Designation

4.1 A strap clamp of Type A having $d = 18$ mm, and $l_1 = 125$ mm shall be designated as:

Strap Clamp A 18×125 IS : 4292

4.2 A strap clamp of Type B having $d = 11$ mm, and $l_1 = 80$ mm shall be designated as:

Strap Clamp B 11×80 IS : 4292

5. Material — Steel suitably hardened and tempered to a tensile strength of 750 to 800 N/mm².

6. Finish — The strap clamps shall be free from cracks, burrs, pits and other defects. These shall also be free from sharp corners.

7. Preservation and Packing

7.1 A suitable anti-corrosive surface treatment shall be given to strap clamps.

7.2 The strap clamps shall be packed in accordance with best trade practice.

8. Marking

8.1 The strap clamps shall be marked at an appropriate place with the designation and the manufacturer's name or trade-mark.

8.2 ISI Certification Marking — Details available with the Indian Standards Institution.

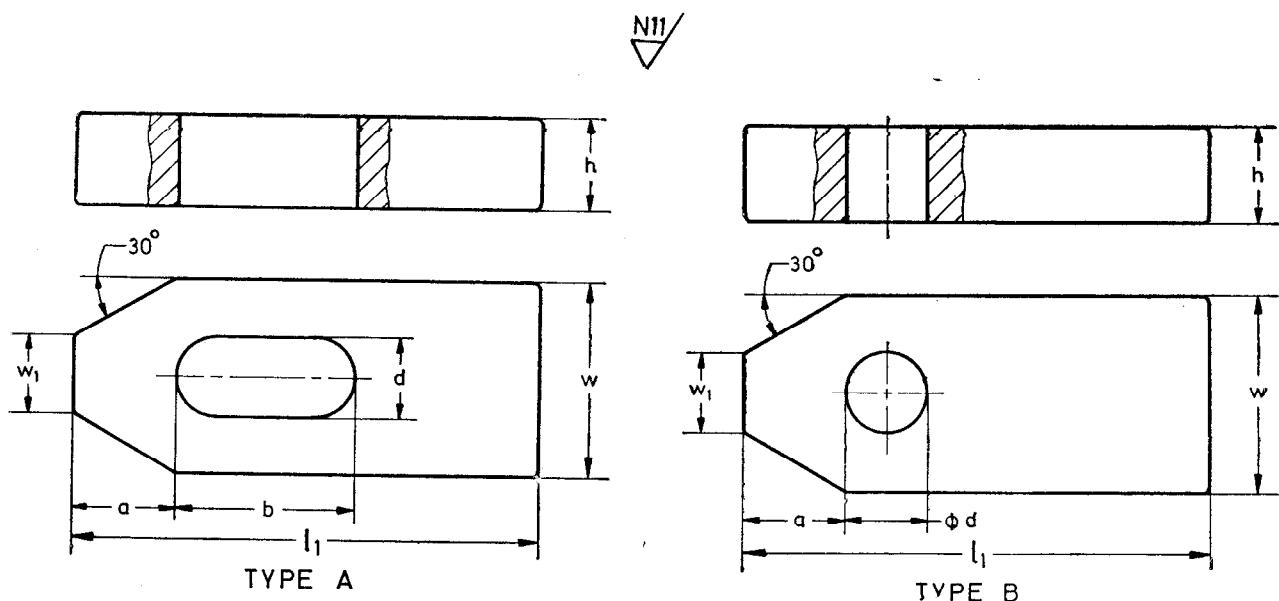
E X P L A N A T O R Y N O T E

This standard was first published in 1967. The committee responsible for formulation of this standard decided to revise the same based upon experience gained over so many years and to keep it in line with other standards on clamps, which are also being revised, regarding material, roughness values, tolerance and rationalization of sizes.

In the present revision, another type of clamp with bolt hole has been included. Dimension 'h' for screw sizes M6, M8, M10, M20 and M24 have been modified.

Adopted 26 March 1984	© June 1984, ISI	Gr 1
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TABLE 1 DIMENSIONS FOR STRAP CLAMPS, TYPE A AND TYPE B
(Clause 3.1)



d H13	l_1	a	b	h	w	w_1	Size of Screw
6·6	50	10	20	12	20	8	M6
9	60	13	22	14	25	10	M8
11	80	15	30	16	30	12	M10
14	100 (125)	21	40 (50)	20	40	14	M12
18	125 (160)	26	45 (65)	25	50	18	M16
22	160 (200)	30	60 (80)	35	60	22	M20
26	200 (250)	35	80 (105)	35 (40)	70	26	M24
33	250 (315)	45	100 (130)	40 (50)	80	34	M30
39	315 (350)	48	125 (150)	45 (55)	90	40	M36
42	350 (400)	53	150 (180)	55 (60)	100	45	M39

Note 1 — Values given within brackets are of non-preferred sizes.

Note 2 — Dimensional deviations for untoleranced dimensions :

Coarse class according to IS : 2102 (Part 1) - 1980 'General tolerances for dimensions and form and position : Part 1 General tolerances for linear and angular dimensions (second revision)'.